

Algebra 2 & Trigonometry Regents Review Sheet

Regents Date (Fill in):

Wednesday June 18th, 11am

Factoring:

Look to see if there is a GCF (protect common factor) first. $ab+ac = a(b+c)$

$$x^2 - a^2 = (x-a)(x+a)$$

$$(x+a)^2 = x^2 + 2ax + a^2$$

$$(x-a)^2 = x^2 - 2ax + a^2$$

Factor by Grouping:

$$x^3 + 2x^2 - 3x - 6$$

$$(x^3 + 2x^2) + (-3x - 6) \text{ group}$$

$$x^2(x+2) - 3(x+2) \text{ factor each}$$

$$(x^2 - 3)(x+2) \text{ factor}$$

Exponentials: $e^x = \exp(x)$

$$b^x = b^y \rightarrow x = y \quad (b > 0 \text{ and } b \neq 1)$$

If the bases are the same, set the exponents equal and solve.

Solving exponential equations:

1. Isolate exponential expression.

2. Take log or ln of both sides.

3. Solve for the variable.

ln(x) and e^x are inverse functions

$$\ln e^x = x \quad e^{\ln x} = x$$

$$\ln e = 1 \quad e^{\ln 4} = 4$$

$$e^{\ln x} = e^{\ln y} = y$$

Quadratic Equations: $ax^2 + bx + c = 0$ (a ≠ 0)

Solve by factoring, completing the square, quadratic formula.

$$b^2 - 4ac > 0 \text{ two real unequal roots}$$

$$b^2 - 4ac = 0 \text{ repeated real roots}$$

$$b^2 - 4ac < 0 \text{ two complex roots}$$

Square root property: If $x^2 = a$, then $x = \pm\sqrt{a}$

Completing the square: $x^2 + 2x + 5 = 0$

1. If other than one, divide by coefficient of x^2

2. Move constant term to other side $x^2 + 2x = -5$

3. Take half of coefficient of x, square it, add to both sides

$$x^2 + 2x + 1 = -5 + 1$$

4. Factor perfect square on left side $(x+1)^2 = -4$

5. Use square root property to solve and get two answers. $x = -1 \pm 2i$

Sum of roots: $x_1 + x_2 = -\frac{b}{a}$ Product of roots: $x_1 x_2 = \frac{c}{a}$

Inequalities: $x^2 + x - 12 \leq 0$ Change to $=$, factor, locate critical points on number line, check each section.

$$(x+4)(x-3) = 0$$

$$x = -4, x = 3$$

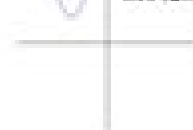
$$x = -4, x = 3$$

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$$x = -4, x = 3$$

ANSWER: $-4 \leq x \leq 3$ or $[-4, 3]$ (in interval notation)

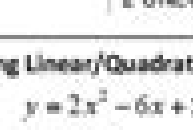
IMAGINARY Roots



EQUAL Roots



2 UNEQUAL Roots



Variations: always involves the constant of proportionality, k. Find k, and then proceed.

Direct variations: $y = kx$

Inverse variations: $y = \frac{k}{x}$

Varies jointly: $y = kxy$

Combo: Solve vary directly with adjoining and inversely with easily work.

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Radical Equations

1. Isolate the radical

2. Square BOTH sides

3. Solve for x.

OR

Solve GRAPHICALLY!

Left side into Y1, right side into Y2

Zoom Standard (ZST)

Logarithms

$$y = \log_b x \Leftrightarrow x = b^y$$

ln x = log_e x natural log

$e \approx 2.71828$

log x = log₁₀ x common log

Change of base formula

$$\log_b a = \frac{\log a}{\log b}$$

$$\log_b a = \frac{\log a}{\log b}$$

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$$\log_b a = \frac{\log a}{\log b}$$

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Properties of Logs:

$$\log_b b = 1 \quad \log_b 1 = 0$$

$$\log_b (mn) = \log_b m + \log_b n$$

$$\log_b \left(\frac{m}{n}\right) = \log_b m - \log_b n$$

$$\log_b (m^r) = r \log_b m$$

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Absolute Values

$$\text{Ex. } |2x-1| = x+1$$

Equations:

Set up 2 cases:

Positive case (copy over as is) $x = 2$

Negative case: set = to negation of each term on the right

Inequalities:

Set up 2 cases:

Positive case (copy over as is)

Negative case: set = to negation of each term on the right

Ex.

$$|2x-1| < x+1$$

$$2x-1 < x+1$$

$$x < 2$$

$$2x-1 > -x-1$$

$$3x > 0$$

$$0 < x < 2$$

$$\text{Ex. } |2x-1| = x+1$$

$$2x-1 = x+1$$

$$2x-1 = -x-1$$

$$3x = 0$$

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$$3x = 0$$

$$3x = 0$$

Solving Linear/Quadratic Systems:

$$y = 2x^2 - 6x + 5$$

$$y = 2 = x$$

$$y = 2 = x$$

$$y = 2 = x$$

$$y = 2 = x$$

$$y = 2 = x$$

$$y = 2 = x$$

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Inequalities: $x^2 + x - 12 \leq 0$ Change to $=$, factor, locate critical points on number line, check each section.

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$$x = -4, x = 3$$



ANSWER: $-4 \leq x \leq 3$ or $[-4, 3]$ (in interval notation)

*CHECK all answers!

Less than arrows in towards each other "AND"
Greater than arrows away from each other "OR"

Algebra 2012 Regents Answer Key

Marco Cascella



Algebra 2012 Regents Answer Key:

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Table of Contents Algebra 2012 Regents Answer Key

1. Understanding the eBook Algebra 2012 Regents Answer Key
 - The Rise of Digital Reading Algebra 2012 Regents Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2012 Regents Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Algebra 2012 Regents Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2012 Regents Answer Key
 - Personalized Recommendations
 - Algebra 2012 Regents Answer Key User Reviews and Ratings
 - Algebra 2012 Regents Answer Key and Bestseller Lists
5. Accessing Algebra 2012 Regents Answer Key Free and Paid eBooks
 - Algebra 2012 Regents Answer Key Public Domain eBooks
 - Algebra 2012 Regents Answer Key eBook Subscription Services
 - Algebra 2012 Regents Answer Key Budget-Friendly Options

6. Navigating Algebra 2012 Regents Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra 2012 Regents Answer Key Compatibility with Devices
 - Algebra 2012 Regents Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 2012 Regents Answer Key
 - Highlighting and Note-Taking Algebra 2012 Regents Answer Key
 - Interactive Elements Algebra 2012 Regents Answer Key
8. Staying Engaged with Algebra 2012 Regents Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 2012 Regents Answer Key
9. Balancing eBooks and Physical Books Algebra 2012 Regents Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2012 Regents Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra 2012 Regents Answer Key
 - Setting Reading Goals Algebra 2012 Regents Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 2012 Regents Answer Key
 - Fact-Checking eBook Content of Algebra 2012 Regents Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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web the tricky part is to multiple by 14 avogadro s number is formally defined as the number of particles in 1 mole of substance do note that particles can refer to molecules ions or atoms no of molecules 25 58 mole x 6 10 23 molecules mole no of atoms 25 58 6 10 23 molecules x number of atoms in c4h10 14atoms 3 621 10 24

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web this unit focuses on building an initial understanding of the mole and how to use it to quantify chemicals at a reasonable scale students develop a conceptual understanding of the mole and use molar mass and avogadro s number to calculate the number of atoms or molecules in a substance

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web solution summary learning objectives describe the unit mole relate the mole quantity of substance to its mass so far we

have been talking about chemical substances in terms of individual atoms and molecules

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web libretexts the mole concept is central to any chemistry calculation based on experimental results the mole is how we relate the unbelievably small atoms and molecules that make something up to the measurable properties such as mass which we may observe in a laboratory setting

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